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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/785,021	02/25/2004	Kouichi Matsushita		9033	
24956 75	590 12/15/2004		EXAM	EXAMINER	
MATTINGLY, STANGER & MALUR, P.C. 1800 DIAGONAL ROAD			CHOE, HENRY		
SUITE 370	AL KOAD		ART UNIT	PAPER NUMBER	
ALEXANDRIA	A, VA 22314		2817		
			DATE MAILED: 12/15/2004	<b>,</b>	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/785,021	MATSUSHITA ET AL.			
		Examiner	Art Unit			
		Henry K Choe	2817	_		
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the	correspondence address			
THE - External after of the control	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a repl poperiod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be a ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fro a, cause the application to become ABANDON	imely filed  ays will be considered timely.  m the mailing date of this communication.  ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 30 N	lovember 2004.	•			
•	This action is <b>FINAL</b> . 2b) This	s action is non-final.				
3)□	Since this application is in condition for allowa	nce except for formal matters, p	rosecution as to the merits is			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	153 O.G. 213.			
Disposit	ion of Claims					
4)🖂	Claim(s) 11-14 is/are pending in the applicatio	n.				
	4a) Of the above claim(s) is/are withdra	wn from consideration.				
5)	5) Claim(s) is/are allowed.  6) Claim(s) 11-14 is/are rejected.					
6)⊠						
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)□	The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).			
11)[	The oath or declaration is objected to by the Ex	xaminer. Note the attached Offic	e Action or form PTO-152.			
Priority :	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ition No ved in this National Stage			
Attachmer	nt(s)					
1) Notice	ce of References Cited (PTO-892)	4) 🔲 Interview Summa				
	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date Patent Application (PTO-152)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	6) Other:	- Inches de la company			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liwinski (Fig. 1).

Regarding claim 11, Liwinski (Fig. 1) discloses an amplifier circuit comprising a first power transistor (Q2), a first capacitor (C1) having a first terminal (bottom terminal of C1) which is coupled to receive a high frequency input signal (RFin) to be amplified and a second terminal (upper terminal of C1) which is coupled to the input terminal (base terminal of Q2) of the first power transistor (Q2), and a bias circuit (BIAS CIRCUIT) which includes a first transistor (Q1) and a first circuit (Q3) and wherein the first transistor (Q1) being configured as to form a current mirror circuit with the first power transistor (Q2) and the first circuit (Q3) receiving a control signal (Vreg) and providing to the first transistor (Q1) a current signal (Icm) according to the control signal (Vreg). As described above, Liwinski (Fig. 1) discloses all the limitations in the claim 11 except for that the first power transistor being formed on a semiconductor chip.

It is well known to integrate the electronic circuits in the semiconductor chip in order to form of small sized Integrated Circuit (IC). Therefore, it would have been obvious to have integrated the first power transistor of Liwinski (Fig. 1) in the semiconductor chip because such a modification would have advantageously produced a small-sized integrated circuit.

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Regarding claim 12, the first transistor (Q1) is a bipolar transistor which is configured as a diode with the input terminal (base terminal of Q1) of the first transistor (Q1) coupled to the first terminal (collector terminal of Q1) of the first transistor (Q1) and wherein the current signal (Icm) is provided to the first terminal (collector terminal of Q1) of the first transistor (Q1). As described above, Liwinski (Fig. 1) discloses all the limitations in the claim 12, except for that the first transistor (Q1) being a FET. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have substituted well known art-recognized equivalent transistors such as a FET in place of the bipolar transistor in the circuit of the Liwinski (Fig. 1) because such a modification would have been considered a mere substitution of art-recognized equivalent transistors.

Regarding claim 13, the input terminal (base terminal of Q2) of the first power transistor (Q2) is coupled to the input terminal (base terminal of Q1) of the first transistor (Q1).

Regarding claim 14, Liwinski (Fig. 1) discloses all the limitations in the claim 14, except for that the first power transistor (Q2) being a FET. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have substituted well known art-recognized equivalent transistors such as a FET in place of the bipolar transistor in the circuit of the Liwinski (Fig. 1) because such a modification would have been considered a mere substitution of art-recognized equivalent transistors.

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## Response to Arguments

Applicant's arguments with respect to claims 11-14 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-

HENRY CHOE PRIMARY EXAMINER